PKI/BLADE (Public Key Infrastructure with Biometrics for Logical Access Development and Execution)

Department of State

PKI Program Office

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Agenda

- **Program Objective**

- **PKI – Current Status**

- **PKI – Applications**

- **PKI/Biometrics**

- **Program Road Map**

Objective

- To provide the Department of State with a robust Biometric/PKI that will improve IT security while reducing cost and increasing customer satisfaction

- To satisfy the requirements of HSPD-12 / FIPS-201, GPEA, e–Sign, e–Gov, and FISMA legislation and the President's Management Agenda

PKI Current Status

- Cross Certified with Federal Bridge, and operated, at the High Assurance Level

- Domestic deployment **99%** complete

- PKI hardware and software installed on over **20,500** desktops including **6,500** overseas

- Over **24,500** Smart IDs with PKI certificates have been issued

- Complete Overseas deployment by End of CY **2006**

PKI Applications

- Secure Email, Code Signing
  - Provides Encryption and Digital Signature capability
  - Code Signing of WEB applets for internal use
- Digital Signature of Standard DoS forms
  - Hundreds of E-Forms such as Leave and Earnings, Employee Evaluation Reports, etc.

PKI Applications

- Access control to Web based applications

- Access control to Mainframe based applications

- Remote access to the Department IT resources

- Provide digital signature capability to the Machine Readable Travel Document (MRTD) application (Electronic Passport)
  - Enhanced Border Security and Visa Entry Reform Act of 2002 requires biometrics; this application ensures the integrity of the MRTD passports containing biometrics

Biometrics (BLADE)

- Objective: Provide a more secure method to control access to DOS SBU networks by eliminating User IDs and passwords.
  - Passwords are problematic: unsecured, shared, lost, and easily compromised.
  - Passwords are costly: help desk support costs.

BLADE Implementation

- Use fingerprint/finger-scan technology based on minutiae points and patterns stored on smart card.

- Operates in conjunction with Active Directory-based PKI in a Windows XP/W2K operating system on State's OpenNet network.

- Biometrics template, PKI certificates, and physical access data stored on the same smart card.

PKI/BLADE Road Map

- ## Near Term Goal:

    – Elimination of User IDs and Passwords on the Department OpenNet Plus system (over 45,000 users)

- ## Future Goal:

    – Enable Single Sign-On to critical Department applications

- ## Current Status:

    – IOC – March 8, 2005

    – Complete deployment by December 2006

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